#### LIST OF HIGHWAY STANDARDS

AREAS OF REINFORCEMENT REBARS
TEMPORARY EROSION CONTROL SYSTEMS
CURB RAMPS FOR SIDEWALK
METAL END SECTION FOR PIPE CULVERT SECTION
CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
REFLECTOR AND TERMINAL MARKER PLACEMENT
OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE 701901-01 TRAFFIC CONTROL DEVICES TEMPORARY CONCRETE BARRIE 720001-01 SIGN PANEL MOUNTING DETAILS SIGN PANEL ERECTION DETAILS

## **GENERAL NOTES**

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH: "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007:

"SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2010

LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (IMUTCD)

STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" JULY 2009 SIXTH EDITION.

LATEST EDITION OF THE MANUAL OF TEST PROCEDURE OF MATERIALS "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS USACOE PERMIT, LCSMC PERMIT, AND STORM WATER POLLUTION PREVENTION

AMERICANS WITH DISABILITIES ACT OF 1990 ACCESSIBILITY GUIDELINES "DRAFT" REHABILITATION ACT OF 1973 (SECTION 504)

PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES ANY REFERENCE TO STANDARDS IN THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE LATEST STANDARDS OF THE DEPARTMENT.

ALL ELEVATIONS SHOWN ON THESE PLANS ARE ON N.G.V.D. OF 1929 DATUM.

THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITIES BEARING ON SAFETY OF PERSONS OR PROPERTY OR THEIR

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE CONTRACT DOCUMENTS ARE NOT INTENDED TO SHOW EVERY AND ALL DETAILS OF WORK TO BE PERFORMED OR EQUIPMENT TO BE SUPPLIED. THE INTENT OF THE CONTRACT DOCUMENTS IS TO ILLUSTRATE THE DESIGN AND LAYOUT. THE CONTRACTOR SHALL BE KNOWLEDGEABLE AND REGULARLY ENGAGED IN THE TYPE OF WORK DESCRIBED BY THESE CONTRACT DOCUMENTS, AND SHALL BE RESPONSIBLE FOR UNDERSTANDING THEIR INTENT. ANY WORK TO BE PERFORMED OR ITEM OF EQUIPMENT TO BE SUPPLIED WHICH IS NOT SPECIFICALLY CALLED FOR BY THESE CONTRACT DOCUMENTS BUT WHICH IS NECESSARY TO PROVIDE A COMPLETE AND SUCCESSFUL WORKING SYSTEM SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.

ALL SAWCUTTING SHALL BE INCIDENTAL TO REMOVAL ITEMS AND SHALL BE PRIOR TO SAWCUTTING SHALL NOT BE MEASURED FOR PAYMENT.

THE THICKNESS OF HOT-MIX ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASIS ON WHICH THEY ARE TO BE PLACED. PLAN THICKNESSES SHOULD BE CONSIDERED THE MINIMUM THICKNESS PERMITTED

PROTECTIVE COATING SHALL BE APPLIED TO THE EXPOSED SURFACES OF THE CONCRETE PIERS, CONCRETE CURB AND GUTTER, AND CONCRETE SIDEWALK.

CONTRACTOR SHALL REPAIR. TO THE SATISFACTION OF THE ENGINEER, ALI DAMAGE TO EXISTING ITEMS NOT SHOWN FOR REMOVAL. THIS WORK SHALL BE DONE BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.

CONTRACTOR SHALL CONTACT THE LOCAL AGENCY'S MATERIAL INSPECTOR AT A MINIMUM OF 48-HOURS PRIOR TO ANY MATERIAL DELIVERIES.

PROTECTION OF NATURAL RESOURCES: ACTIVITIES SHALL ONLY OCCUR IN IDENTIFIED CONSTRUCTION/ACCESS AREAS. NO EQUIPMENT, STAGING AREAS, OR ANY OTHER CONSTRUCTION RELATED ACTIVITIES SHALL OCCUR ON PRIVATE PROPERTY OR LAKE COUNTY FOREST PRESERVE PROPERTY

NOTHING SHALL BE STORED ON BRIDGE DECK.

THE PROTECTED MASSASAUGA RATTLESNAKES MAY BE ENCOUNTERED IN THE WORK ZONE. CONTRACTOR IS URGED TO ATTEND A TRAINING SESSION PROVIDED BY LAKE COUNTY FOREST PRESERVE (CONTACT RANDY SEEBACH,

# **DRAINAGE NOTES**

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS, HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH SHALL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER ITEMS.

DURING THE CONSTRUCTION OPERATIONS WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR DRAINAGE STRUCTURES SO THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS CAUSED BY THE CONSTRUCTION. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL

REGARDLESS OF THE SOURCE OF WATER, ANY DEWATERING WITHIN THE PIER 2 AND PIER 3 COFFERDAMS (SPECIAL) LIMITS SHALL BE PAID AS PER THE DEWATERING SPECIAL PROVISION. REGARDLESS OF THE SOURCE OF WATER, ANY DEWATERING REQUIRED TO KEEP EXCAVATIONS DRY OUTSIDE OF THE PIER 2 AND PIER 3 COFFERDAMS SPECIAL LIMITS, SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE

OBSERVATION STRUCTURES OR OTHER SIMILAR MAINTENANCE AND INSPECTION ACCESS STRUCTURES SHALL BE PLACED ON DRAIN TILES ENTERING AND LEAVING THE ROAD RIGHT-OF-WAY. WHEN REQUIRED, THIS WORK SHALL BE PER SECTION 109.04 OF THE STANDARD SPECIFICATIONS.

A STAFF GAUGE USED FOR DETERMINING FLOOD STAGE IS LOCATED ON THE WEST BANK OF THE DES PLAINES RIVER JUST SOUTH OF DEERFIELD ROAD. THE STAFF GAUGE SHALL NOT BE DAMAGED DURING CONSTRUCTION, AND IT SHALL ONLY BE MOVED IF NECESSARY DUE TO THE CONTRACTOR'S METHOD OF CONSTRUCTION; PRIOR TO MOVING THE GAUGE THE CONTRACTOR SHALL COORDINATE VERNON TOWNSHIP, AND THE COST OF MOVING THE STAFF GAUGE SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE

REMOVAL AND DISPOSAL OF EXISTING STORM SEWER OR CULVERT AS PART OF INSTALLATION OF PROPOSED STORM SEWER OR PROPOSED CULVERT SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PROPOSED STORM SEWER OR PROPOSED CULVERT PAY ITEM.

### **EARTH EXCAVATION NOTES**

EXCAVATION REQUIRED TO CLEAN SIDE ROAD DITCHES, CONSTRUCT DRIVEWAYS OR CONSTRUCT SIDE ROAD APPROACHES SHALL BE CONSIDERED NCLUDED IN THE COST OF EARTH EXCAVATION.

ALL EXCESS MATERIAL FROM NECESSARY EXCAVATIONS WHICH MEET SECTION 205 OF THE STANDARD SPECIFICATIONS SHALL BE USED AS EMBANKMENT PER SECTION 205 OF THE STANDARD SPECIFICATIONS.

EARTH EXCAVATION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 202 OF THE "STANDARD SPECIFICATIONS", EXCEPT THAT OVERHAUL SHALL NOT BE PAID FOR. IN ADDITION TO ITEMS SPECIFIED IN SECTION 202 AND AS NUTED IN THE PLANS AND SPECIAL PROVISIONS, EARTH EXCAVATION SHALL CONSIST OF:

- 1. EXCAVATION TO SUBGRADE ELEVATION (INCLUDING TOPSOIL STIPPING AND REMOVING EARTH FOR INSTALLATION OF POROUS GRANULAR EMBANKMENT)
- 2. PLACING AND COMPACTING SUITABLE EXCAVATED MATERIAL FOR FILI AREAS IN ACCORDANCE WITH SECTION 205 OF THE "ST/NDARD SPECIFICATIONS".
- 3. EARTH MOVED MORE THAN ONCE DUE TO CONSTRUCTION STAGING AND/OR PROCEDURES SELECTED BY THE CONTRACTOR SHALL NOT E PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF **FARTH EXCAVATION**
- 4. REMOVAL OF EXISTING HMA AND PCC PATH ON DES PLAINES RIVER TRAIL

ALL EMBANKMENT WIDENING SHALL BE SUFFICIENTLY BENCHED INTO E∄ISTING EMBANKMENTS/SLOPES PER ARTICLE 205 OF THE STANDARD SPECIFIC TIONS, AND AS APPROVED BY THE ENGINEER. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE FOR EARTH EXCAVATION

ALL CLEARING AND REMOVAL OF BUSHES, HEDGES AND TREES LESS TI∄AN SIX (6) IN. IN DIAMETER SHALL NOT BE PAID FOR SEPARATELY BUT, SHALL BE INCLUDED IN THE PRICE PER ACRE FOR TREE REMOVAL.

## CONSTRUCTION SEQUENCING NOTES

SEE SOIL EROSION AND SEDIMENT CONTROL NOTES AND SUGGESTED TRAFFIC CONTROL NOTES FOR CONSTRUCTION SEQUENCING AND ADDITIONAL

CONTRACTOR SHALL SUBMIT CONSTRUCTION SEQUENCING PLAN ENGINEER PLAN SHALL INCLUDE CONSTRUCTION STAGING SEQUENCE AND DURATION, CONSTRUCTION EQUIPMENT ACCESS ROUTE, ERECTION PLAN WITH SEQUENCE AND DURATION. ALL ITEMS NEEDED TO COMPLY WITH USAC DE AND LCSMC PERMITS, ALL ITEMS NEEDED TO COMPLY WITH THE PLANS AND SPECIAL PROVISIONS, AND ALL ITEMS NEEDED TO RECEIVE APPROVAL FROM LCDOT TO USE DEERFIELD ROAD (FAU 1257) AND DEERFIELD ROAD BRIDGE (SN 049-1074) AS STAGING AREA. CONTRACTOR SHALL NOT BEGIN WORL UNTIL CONSTRUCTION SEQUENCING PLAN IS APPROVED BY ENGINEER.

ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLIOWING REQUIREMENTS:

- A. SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK NECES: TATES
- B. THE CONTRACTOR SHALL BE REQUIRED TO RELOCATE, MAINTAIN AND REMOVE SIGNS WHICH INTERFERE WITH HIS CONSTRUCTION OPERALONS.

  C. THE CONTRACTOR SHALL REMOVE ALL UNUSED SIGNS NOT CALLED OUT TO BE RELOCATED. ALL UNUSED SIGNS SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE ENGINEER. THE WORK

SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

D. SIGNS SHALL BE INSTALLED PER IDOT HIGHWAY STANDARD 72 0006 AT TEMPORARY AND PERMANENT LOCATIONS

THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES AND AT LEAST TWO WEEKS PRIOR TO PERMANENT PAVEMENT MARKING PLACEMENT.

#### PEDESTRIAN / BICYCLE MANAGEMENT NOTES

ALL PEDESTRIAN ROUTES CONSTRUCTED AS PART OF THIS PROJECT SHALL BE ADA COMPLIANT

DEPRESSED CURBS ACCESSIBLE TO THE HANDICAPPED SHALL BE PROVIDED S SHOWN IN THE PLANS. THE TRANSITION FROM FULL HEIGHT CURB TO DEPRESSED CURB SHALL BE 6' LONG. THIS WORK IS INCLUDED IN THE COST OF THE ASSOCIATED CONC. CURB AND GUTTER.

TYPE "A" SIDEWALK RAMPS FOR THE HANDICAPPED SHALL BE INSTALLED AT ALL INTERSECTING STREETS AT LOCATIONS SHOWN IN THE PLANS (SEE

DETECTABLE WARNINGS SHALL BE PLACED IN SIDEWALK AT LOCATIONS SHOWN ON THE PLANS BEHIND DEPRESSED CONCRETE CURB AND GUTTER.

SEE SUGGESTED TRAFFIC CONTROL NOTES FOR ADDITIONAL REQUIREMENTS.

THE CONTRACTOR SHALL BE REQUIRED TO ASCERTAIN THE EXACT LOCATIONS OF UTILITIES AND EXERCISE CARE DURING HIS CONSTRUCTION OPERATIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE SPECIAL PROVISIONS.

THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM AND SANITARY SEWERS, WATER LINES, WATER SERVICE LINES, AND OTHER UTILITY LINES ARE APPROXIMATE THEIR EXACT HORIZONTAL AND VERTICAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT HIS OWN EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS AND CABLE TELEVISION FACILITIES (48 HOURS NOTIFICATION IS REQUIRED.)

THE CONTRACTOR SHALL NOT OPEN OR SHUT ANY WATER VALVES OR FIRE HYDRANTS WITHOUT PRIOR AUTHORIZATION FROM THE CITY WATER DEPARTMENT. UNAUTHORIZED USE SHALL SUBJECT THE OFFENDER TO ARREST AND PROSECUTION.

CONTRACTOR TO NOTE THAT LAKE COUNTY PUBLIC WORKS INTENDS TO REPLACE THEIR EXISTING 8" SANITARY FORCE MAIN FROM STA 2+00 TO STA 8+00. A 12" PVC FORCE MAIN WILL BE INSTALLED APPROXIMATELY 12-13 FEET NORTH AND PARALLEL TO THE PROPOSED DEERFIELD ROAD BIKE PATH ALIGNMENT AND THE EXISTING FORCE MAIN WILL BE FILLED AND ABANDONED. THIS WORK BY OTHERS IS ANTICIPATED TO BE COMPLETED BY SPRING 2010. CONTRACTOR SHALL COORDINATE WITH LAKE COUNTY PUBLIC WORKS

## LANDSCAPING NOTES

SEE SOIL FROSION AND SEDIMENT CONTROL NOTES FOR CONSTRUCTION SEQUENCING AND ADDITIONAL REQUIREMENTS

FERTILIZER NUTRIENTS FOR SEEDING CLASS 14 USE A FERTILIZER WITH AN ANALYSIS OF 1:1 RATIO. RATE PER ACRE:

90 LBS POTASSIUM FERTILIZER NUTRIENT SEEDING CLASS 4 (MODIFIED), NO FERTILIZER TO BE APPLIED

TREES TO BE REMOVED: THE INDICATED TREES (INCLUDING STUMPS) TO BE REMOVED SHALL BE SUITABLY MARKED BY THE ENGINEER BEFORE TREE REMOVAL OPERATIONS BEGIN

TREES TO BE SAVED: PARTICULAR EFFORT SHALL BE MADE TO SAVE ALL DESIRABLE (AS DETERMINED BY THE ENGINEER) EXISTING TREES AND UNDERGROWTH UNDER 6" DIAMETER CALIPER SIZE WHEN THEY ARE LOCATED 5 FEET OUTSIDE THE PROPOSED PATH IN AREAS OF CUT OR FILL SLOPES HAVING A GRADE CHANGE OF LESS THAN ONE FOOT, MINIMUM GRADING IS TO BE PERMITTED WITHIN AN APPROXIMATE RADIUS OF 5 FEET FROM ALL TREES TO BE SAVED AS DETERMINED BY THE ENGINEER. ANY TREES TO BE SAVED WITH CANOPIES LOCATED WITHIN 5 FEET OF THE PROPOSED PATH SHALL BE TRIMMED (TREE AND ROOT) ACCORDING TO THE PLAN DETAIL, SPECIAL PROVISION AND AS DIRECTED BY THE ENGINEER.

TREE PRUNING AND TREE ROOT PRUNING SHALL OCCUR PRIOR TO ANY CONSTRUCTION EQUIPMENT ENTERING JOB SITE.

CONTRACTOR SHALL NOT STOCKPILE/STORE EQUIPMENT, MATERIALS OR VEHICLES ON DEERFIELD ROAD BRIDGE, WITHIN FLOODWAY OR OUTSIDE THE

THE CONTRACTOR SHALL REMOVE ALL CUT BRUSH AND WOOD CHIPS FROM THE FLOODPLAIN.

BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT. DESIGNED -\LCDOT\Ø6377A\Civil\NOT\_Ø6377A\_Ø1.S DRAWN PMM REVISED PLOT SCALE = NONE CHECKED JGS REVISED PLOT GATE = 12/9/200 REVISED

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS

WELL AS SUPERVISION/DIRECTION AND

MEANS/METHODS OF CONSTRUCTION.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

DEERFIELD ROAD BIKE PATH **GENERAL NOTES AND HIGHWAY STANDARDS** 

SHEET NO. 1 OF 1 SHEETS STA.

TOTAL SHEE SHEETS NO. SECTION LAKE 40 04-00038-03-BT CONTRACT NO. 63408 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT